10/619,688
PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXA	MINING AUTHORITY	FILE COPY		
To: MICHAEL B. HURD SHOOK, HARDY & BACON, L.L.P. 2555 GRAND BLVD. KANSAS CITY, MO 64108-2613		PCT		
		WRITTEN OPINION		
		(PCT Rule 66)		
		Date of Mailing (day/month/year)	-	
Applicant's or agent's file reference		REPLY DUE		
CTSZ106510/5		within 2 months/days from the above date of mailing		
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
	15 July 2003 (15.07.200		15 July 2002 (15.07.2002)	
International Patent Classification (IPC) o	or both national classificat	ion and IPC		
IPC(7): B01F 5/06; F28F 13/06 and US (Cl.: 366/337, 338			
Applicant				
SULZER CHEMTECH USA, INC.				
 This written opinion is the first (first, etc.) drawn by this International Preliminary Examining Authority. This opinion contains indications relating to the following items: Basis of the opinion Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention Reasoned statement under Rule 66.2 (a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Certain defects in the international application 				
VIII Certain observation	VIII Certain observations on the international application			
3. The applicant is hereby invite	• •			
	mit indicated above. The to grant an extension. Se		ore the expiration of that time limit, request	
How? By submitting				
Also For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6				
If no reply is filed, the international preliminary examination rep			e established on the basis of this opinion.	
 The final date by which the in examination report must be es 	ternational preliminary stablished according to Ru	ale 69.2 is: <u>15 Nover</u>	nber 2004 (15.11.2004)	
Name and mailing address of the IPEA	/US	Authorized afficers .		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Charles E Cooley		
P.O. Box 1450 Alexandria, Virginia 22313-1450		Charles E. Coole		
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Form PCT/IPEA/408 (cover sheet)(July 1998)

8 APR 2004

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International application No.

PCT/US03/21893

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I.	Basis of the opinion	
1.	With regard to the elements of the international application:*	
	the international application as originally filed the description: pages 1-6, as originally filed pages NONE, filed with the demand pages NONE, filed with the letter of	
	the claims: pages 7-9, as originally filed pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand pages NONE, filed with the letter of	
	the drawings: pages 1-6 , as originally filed pages NONE , filed with the demand pages NONE , filed with the letter of	
	the sequence listing part of the description: pages NONE, as originally filed pages NONE, filed with the demand pages NONE, filed with the letter of	
2.	With regard to the language, all the elements marked above were available or furnished to the language in which the international application was filed, unless otherwise indicated under the These elements were available or furnished to this Authority in the following language	is item.
	the language of a translation furnished for the purposes of international search (under Rule 48.3(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary ex 55.2 and/or 55.3).	
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international appropriate opinion was drawn on the basis of the sequence listing:	plication, the written
2.	contained in the international application in printed form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyon international application as filed has been furnished.	
4	The statement that the information recorded in computer readable form is identical to the has been furnished.	e written sequence instillig
4.5.	The amendments have resulted in the cancellation of: the description, pages NONE the claims, Nos. NONE the drawings, sheets/fig NONE This opinion has been drawn as if (some of) the amendments had not been made, since they have beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	been considered to go
	Replacement sheets which have been furnished to the receiving Office in response to an invitation under a sopinion as "originally filed."	Article 14 are referred to in

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V.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial a	pplicability
	citations and explanations supporting such statement	

1. STATEMENT

Novelty (N)	Claims NONE	YES
	Claims 1-25	NO
Inventive Step (IS)	Claims NONE	YES
	Claims 1-25	NO
Industrial Applicability (IA)	Claims 1-25	YES
• • •	Claims NONE	NO

2. CITATIONS AND EXPLANATIONS

Claims 1-25 lack novelty under PCT Article 33(2) as being anticipated by EP 1067352 A1 which discloses the recited static mixer and method including multiple grids and a connector in Figure 1.

Claims 1-2, 7-14, and 17-25 lack novelty under PCT Article 33(2) as being anticipated by Horner (US 4,093,188) which discloses the recited static mixer and method including multiple grids and a connector in Figures 1-5.

Claims 1-2, 7-14, and 17-25 lack novelty under PCT Article 33(2) as being anticipated by Doom (US 4,072,296) which discloses the recited static mixer and method including multiple grids and a connector in Figures 1-4.

Claims 1-25 meet the criteria set out in PCT Article 33(4), and thus possess industrial applicability because the subject matter claimed can be made or used in industry such as in the mixing of a fluid stream within a conduit.

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	Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)		
	TIME LIMIT: The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.		
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